

Class: 12
Subject: Biology
Topic: Evolution
No. of Questions: 25

- Q1. Why the wings of a butterfly and of a bat are called analogous?
- Q2. "Sweet potato tubers and potato tubers are the result of convergent evolution." Justify the statement.
- Q3. What is genetic drift?
- Q4. Explain why D.D.T. has now become ineffective against mosquitoes.
- Q5. When and from which source the mammals and the primates originated?
- Q6. Write down 4 important resemblances between apes and humans.
- Q7. Name the fossil modern man and living modern man. How do they differ in cranial capacity.
- Q8. Name the main stages in human evolution in order of their appearance.
- Q9. What advantages man got over other primates by having erect posture and large brain.
- Q10. Name the curvatures in the human spine, Give their advantage.
- Q11. What is divergent evolution? Explain taking an example of plants.
- Q12. How do Darwin's finches illustrate adaptive radiation?
- Q13. Did aquatic life forms get fossilized? If yes, where do we come across such fossils?
- Q14. What are we referring to when we say 'simple organisms' or complex organisms'?
- Q15. How do we compute the age of a fossil or a rock?
- Q16. What is founder effect?
- Q17. List the two main propositions of Oparin and Haldane.

- Q18. Write the Oparin and Haldane's hypothesis about the origin of life on Earth. How does meteorite analysis favour this hypothesis?
- Q19. Make a list of the theories put forward for the origin of life.
- Q20. What is atavism?
- Q21. Evolution is
- (a) progressive development of a race
 - (b) history and development of race along with variations
 - (c) history of race
 - (d) development of race.
- Q22. "Continuity of germplasm" theory was given by
- (a) De Vries
 - (b) Weismann
 - (c) Darwin
 - (d) Lamarck.
- Q23. Theory of inheritance of acquired characters was given by
- (a) Wallace
 - (b) Lamarck
 - (c) Darwin
 - (d) De Vries.
- Q24. 'Origin' of Species' was written by
- (a) Oparin
 - (b) Weismann
 - (c) Lamarck
 - (d) Darwin.
- Q25. Which was absent in the atmosphere at the time of origin of life?
- (a) NH₃
 - (b) H₂
 - (c) O₂
 - (d) CH₄.